

AMENDMENTS TO THE CLAIMS

The claims in this listing will replace all prior versions, and listings, of claims in the application.

1-6. (Canceled)

<sup>1</sup>  
~~7.~~ (Previously Presented) A correlation system comprising:

a frequency adding means for receiving a reference signal  $R_0(t)$  and adding thereto a predetermined plurality  $n$  of frequency components ( $F_1$ - $F_n$ ) to output a resultant reference signal  $R_1(t)$ - $R_n(t)$ , wherein  $n$  and  $t$  are integers;

an adder for receiving  $n$  reference signals  $R_1(t)$ - $R_n(t)$  and a single said reference signal  $R_0(t)$  as a base and adding them together to output a corrected reference signal  $R(t)$ ; and

a correlator for taking a correlation between a measurement signal  $S(t)$  and said corrected reference signal  $R(t)$  to output a correlation output signal.

<sup>2</sup>  
~~8.~~ (Currently Amended) A correlation system according to claim <sup>1</sup>~~7~~, wherein the frequency adding means multiplies the reference signal  $R_0(t)$  by  $[[e^{-j\omega t}]] e^{j\omega t}$ , where  $\omega = 2\pi f$  ( $f$  is a frequency).

<sup>3</sup>  
~~9.~~ (Original) A correlation system according to claim <sup>1</sup>~~7~~, wherein the frequency adding means outputs an exclusive logical sum (EXOR) between digital clocks of frequencies corresponding to the frequency components ( $F_1$ - $F_n$ ) and the reference signal  $R_0(t)$ .

10. (Canceled)

<sup>4</sup>  
~~11.~~ (Previously Presented) A correlation system according to claim <sup>1</sup>~~7~~, wherein the measurement signal  $S(t)$  is a reception signal of a spread spectrum signal.

12. (Canceled)

<sup>5</sup>  
~~13.~~ (Original) A correlation system according to claim <sup>1</sup>~~7~~, wherein the measurement signal  $S(t)$  is a spectrum spread signal of a W-CDMA system.

14. (Canceled)

<sup>6</sup>  
~~15.~~ (Previously Presented) A correlation method comprising:

~~a frequency adding step for~~ receiving a reference signal  $R_0(t)$  and adding thereto a predetermined plurality  $n$  of frequency components ( $F_1$ - $F_n$ ) to output a resultant reference signal  $R_1(t)$ - $R_n(t)$ , wherein  $n$  and  $t$  are integers;

~~an adding step for~~ receiving  $n$  reference signals  $R_1(t)$ - $R_n(t)$  and a single said reference signal  $R_0(t)$  as a base and adding them together to output a corrected reference signal  $R(t)$ ; and

~~a correlating step for~~ taking a correlation between a measurement signal  $S(t)$  and said corrected reference signal  $R(t)$  to output a correlation output signal.

16. (Canceled)

17-19. (Canceled)

<sup>7</sup>  
~~20.~~ (Previously Presented) A correlation system comprising:

a frequency adding device that receives a reference signal  $R_0(t)$  and adds thereto a predetermined plurality  $n$  of frequency components ( $F_1$ - $F_n$ ) to output a resultant reference signal  $R_1(t)$ - $R_n(t)$ , wherein  $n$  and  $t$  are integers;

an adder that receives  $n$  reference signals  $R_1(t)$ - $R_n(t)$  and a single said reference signal  $R_0(t)$  as a base and adds them together to output a corrected reference signal  $R(t)$ ; and

a correlator that takes a correlation between a measurement signal  $S(t)$  and said corrected reference signal  $R(t)$  to output a correlation output signal.

21. (Canceled)